

Date: Fri, 17 Sep 93 04:30:26 PDT
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>
Errors-To: Ham-Digital-Errors@UCSD.Edu
Reply-To: Ham-Digital@UCSD.Edu
Precedence: Bulk
Subject: Ham-Digital Digest V93 #43
To: Ham-Digital

Ham-Digital Digest Fri, 17 Sep 93 Volume 93 : Issue 43

Today's Topics:

 9600 baud - commercially available?
 9600 baud fsk tone pair frequencies, wat are they?
 Baypac modem-DJ F1t-resistor value
 Can you build a TNC?
 HF packet for IC720A
 Southend & District Radio Society Clubnews
 What is digital bandwidth?

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 15 Sep 1993 11:31:18 GMT
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!gatech!kd4nc!ke4zv!
gary@network.ucsd.edu
Subject: 9600 baud - commercially available?
To: ham-digital@ucsd.edu

In article <2242@arrl.org> bbattles@arrl.org (Brian Battles WS10) writes:
>In rec.radio.amateur.digital.misc, richgi@microsoft.com (Richard Gillmann)
>writes:
>>Can a 9600-baud packet station be set up entirely out of commercially
>>available items (not kits)? This would have to include a TNC, a 9600-baud
>>modem and a VHF or UHF radio.
>
> Gracilis sells the PackeTwin system with a plug-in card for your
>IBM-compatible PC. It includes a 'DSY modem (9600 or 19,200 bit/s) and
>a TEK 440-MHz transceiver (2 W). Handy! (Mine was working fine into the local

Note, the Gracillis card does **not** include a WA4DSY (aka GRAPES) 56 kb RF modem. It does include provisions for **driving** one externally through one of it's ports. 1200 baud, 2400 baud, 9600 baud, and 19.2 kb, daughter card modems are available for the card's other port. They're actually made for Gracillis by Kantronics. The Tekk radio is small, originally intended for board mounting. It is powered and driven off the daughtercard modem.

Gary

--

Gary Coffman KE4ZV	"If 10% is good enough	gatech!wa4mei!ke4zv!gary
Destructive Testing Systems	for Jesus, it's good	uunet!rsiatl!ke4zv!gary
534 Shannon Way	enough for Uncle Sam."	emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244	-Ray Stevens	

Date: 15 Sep 1993 13:44:26 -0500
From: swrinde!cs.utexas.edu!not-for-mail@network.ucsd.edu
Subject: 9600 baud fsk tone pair frequencies, wat are they?
To: ham-digital@ucsd.edu

Does anybody know the tone pair frequencies for 9600 baud fsk? I am going to modify a couple of radios for 9600 baud and would like to feed the pure tones through on the bench and see what works best. Also any tips about 9600 baud modifications would be greatly appreciated. And one more thing, does anyone know what frequencies are used for terrestrial 9600 baud fsk packet?

--

Date: 15 Sep 1993 18:34:18 GMT
From: swrinde!cs.utexas.edu!uwm.edu!spool.mu.edu!agate!violet.berkeley.edu!
mtrail@network.ucsd.edu
Subject: Baypac modem-DJ F1t-resistor value
To: ham-digital@ucsd.edu

Hi, packeteers. I'm having trouble activating the PTT on my Alinco DJ F1t/tigertronics baypac modem. I've installed the little shunt on the modem that activates the 3.0k ohm resistor that's supposed to bring the mic line to ground, but the rig will not transmit unless I manually depress the PTT (very inefficient!).

Does anyone have experience with other resistor values, such as 2K? Should I solder a resistor between the yellow and red wires into the mic input? Also, I'm getting a 580 dual bander soon. Anyone had any experience on this particular problem with that rig?

Thanks, from a very inexperienced packeteer.

Matt KN6CR

Date: Wed, 15 Sep 1993 12:01:44 GMT
From: newsgate.watson.ibm.com!yktnews.watson.ibm.com!hawnews.watson.ibm.com!
news@uunet.uu.net
Subject: Can you build a TNC?
To: ham-digital@ucsd.edu

In <275ubbINNp05@uwm.edu> pachner@csd4.csd.uwm.edu (Thomas Jay Pachner) writes:
>I am new to Amateur Radio and was curious to who a TNC works? Is it possible
>to modify an external modem to become a TNC?
>
>What is an inexpensive TNC that would be good for someone to begin on?
>
>
>--
>Thomas Jay Pachner ==- Music Major, Bassist, Gamer, and Amateur Operator
>University of Wisconsin - Milwaukee - pachner@csd4.csd.uwm.edu
>BARNEY MUST DIE!!!!!!!!!!!!
>Amateur Call Sign: waiting since July 10 (it's worse than tax returns)

A TNC is a modem (Bell 202 (or is it 208?)) and a processor. The processor implements the AX.25 protocol that is used by packet. Now, the processor is just some kind of micro (the TNC-2 that lots of companies cloned is a Z-80), but it doesn't have to be - the modem doesn't care.

If you see advertisements or messages referring to a 'Baycom' TNC, then you just get the modem. You need to hook it to a PC, and the PC does all the software work. There are several out there, but they all use a PC (or in some cases a Commodore 64) in place of the dedicated TNC processor.

I've seen Baycom-style TNCs in the \$50-60 range, but MFJ sells their TNC-2 clone for \$120. So, what you get depends on how poor you feel and if you have a PC sitting around.

...phil

phillip c. reed
pcr@vnet.ibm.com / KD4PWI@N4YUU.CKY.KY.USA.NA / CI\$:72754,513
* It is highly unlikely that the opinions expressed herein are those of IBM *
* or any of it's operating units. *

Date: Wed, 15 Sep 1993 13:32:11 UTC
From: pipex!sunic!news.funet.fi!news.cs.tut.fi!butler.cc.tut.fi!news.eunet.fi!
anon.penet.fi@uunet.uu.net
Subject: HF packet for IC720A
To: ham-digital@ucsd.edu

I have a MFJ1270B with an add on tuner that I am trying to hookup to my Icom 720A for HF packet operation. The problem I am having is that I can not seem to drive the audio circuits of the 720. The radio PTT is keyed and the radio goes into transmit but no audio is present, FYI receive works fine. Has anyone encountered this type of problem and can tell me what to do I would be very grateful. Please post the response to my email account (scottm@csg.mot.com)
thanks

To find out more about the anon service, send mail to help@anon.penet.fi. Due to the double-blind, any mail replies to this message will be anonymized, and an anonymous id will be allocated automatically. You have been warned. Please report any problems, inappropriate use etc. to admin@anon.penet.fi.

Date: Fri, 10 Sep 1993 23:24:23 +0000
From: pipex!demon!g1xgp.demon.co.uk!g1xgp@uunet.uu.net
Subject: Southend & District Radio Society Clubnews
To: ham-digital@ucsd.edu

SOUTHEND & DISTRICT RADIO SOCIETY CLUBNEWS.

Forthcoming Events:-

14/09/93 Committee Meeting at Rocheway 20:15
17/09/93 Quiz Night.
19/09/93 EPG/KEPAC Junk/Boot Sale at Rocheway (10:00am - 15:00).
01/10/93 Talk by Bob of Waters & Stanton.
10/12/93 Talk on Essex Villages.

Special Event Stations that the Club will be participating in:-

CLUB MAILING ADDRESS:-

P.O. Box 88, Rayleigh, Essex SS6 8NZ.

(Letters only please - No parcels).

Steve..G1XGP @ GB7DUG
"SOUTHEND & DISTRICT RADIO SOCIETY"

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/ex

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+ Steve Blinkhorn      + G1XGP @ GB7DUG.#32.GBR.EU (Amateur Radio) +  
+ AMPRnet              + g1xgp@g1xgp.ampr.org      [44.131.16.147] +  
+ Essex Packet Group + g1xgp@g1xgp.demon.co.uk  (Internet)      +  
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Date: 15 Sep 1993 11:23:35 GMT
From: pa.dec.com!sousa.ako.dec.com!bobseg.enet.dec.com!segrest@decwrl.dec.com
Subject: What is digital bandwidth?
To: ham-digital@ucsd.edu

I have been running into conflicting stories lately and would appreciate some clarification...

What is the formula for determining band width for packet operation?

I presume that speed (baud rate) and deviation are the key parameters but would like to know how the numbers are used.

Can you operate 9600 baud packet in a 25khz channel?

Any help or pointers to appropriate documentation greatly appreciated..

--
Bob Segrest
segrest@bobseg.enet.dec.com

End of Ham-Digital Digest V93 #43
